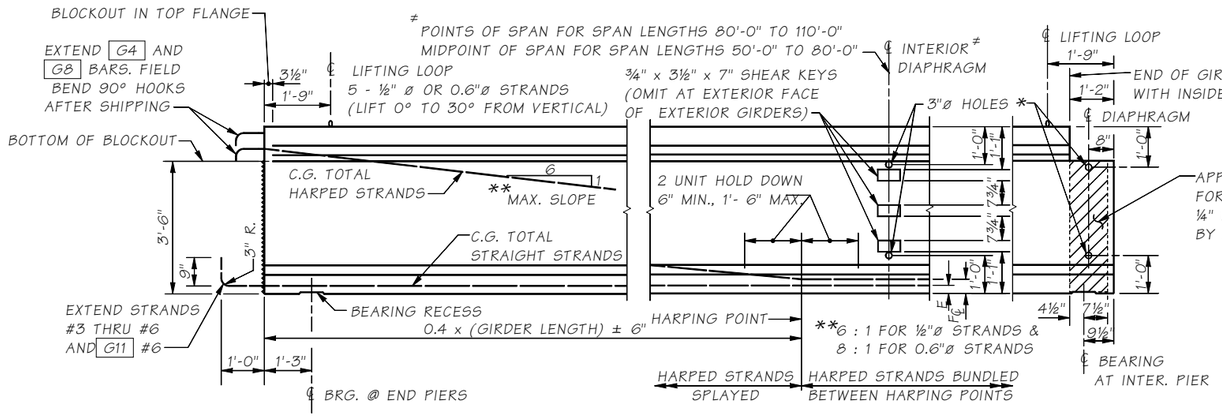
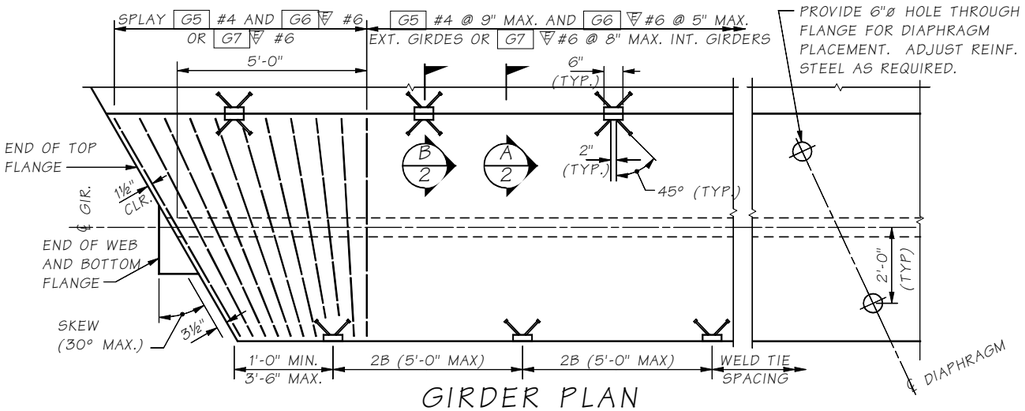


* OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW. INSERTS SHALL BE 1" BURKE HI-TENSILE, LANCASTER MALLEABLE, DAYTON-SUPERIOR F-62 FLARED THIN SLAB (1" x 4⅝") FERRULE INSERT OR APPROVED EQUAL. (TYP.)

GENERAL NOTES

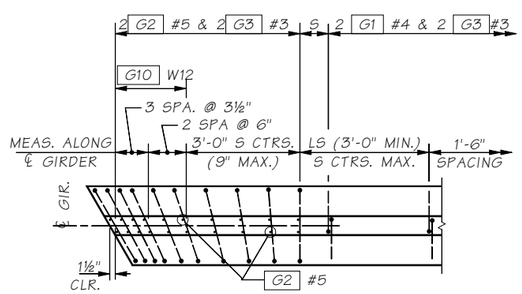
1. ALL DETAILS SHOWN PERTAIN ONLY TO THE 53 INCH DEEP GIRDER WITH THE 6'-0" GIRDER WIDTH SHOWN.
2. FORMS FOR THE BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER SO AS TO NOT CAUSE DAMAGE TO THE GIRDERS DURING THE STRAND RELEASE OPERATION.
3. SPAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE
4. ALL PRESTRESSING STRANDS SHALL BE ½ INCH OR 0.6 INCH ø LOW RELAXATION SEVEN WIRE STRAND, AASHTO M203 GR. 270. ALL MILD STEEL REINFORCING SHALL BE AASHTO M31 GR. 60. ALL STUDS SHALL CONFORM TO STD. SPEC. SECTION 9-06.15. ALL OTHER STEEL SHALL BE AASHTO M183 AND SHALL BE PAINTED WITH 2 COATS OF STATE FORMULA A-9-73.
5. CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS EXCEPT FOR THOSE SHOWN TO BE EXTENDED, AND PAINT ENDS OF FLUSH STRANDS WITH AN APPROVED EPOXY RESIN.
6. AFTER ERECTION, CUT OFF LIFTING LOOPS 1 INCH BELOW THE TOP OF THE FLANGE AND FILL WITH AN APPROVED GROUT PRIOR TO PLACING OF THE OVERLAY. ALL LIFTING STRANDS ARE TO BE OF THE SAME MATERIAL AND STRENGTH AS THE PRESTRESSING STRANDS. WRAP LIFTING LOOPS SO THAT EACH STRAND WILL CARRY IT'S SHARE OF THE TOTAL LOAD. EXTEND LIFTING LOOPS WITH 9 INCH LONG 90° HOOKS TO WITHIN 3 INCHES CLEAR OF THE BOTTOM OF THE GIRDER.

GIRDER ELEVATION

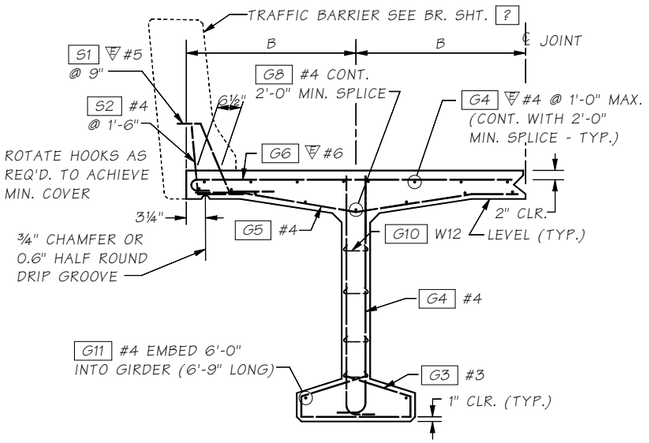


GIRDER PLAN

OMIT WELD TIES ON EXTERIOR EDGE OF EXTERIOR GIRDER. (STRANDS AND LONGITUDINAL BARS NOT SHOWN)

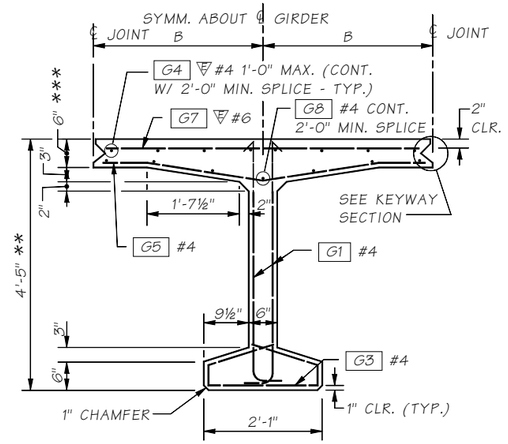


PLAN SECTION THROUGH GIRDER WEB



EXTERIOR GIRDER REINFORCING NEAR GIRDER END

FOR DETAILS NOT SHOWN, SEE INTERIOR GIRDER



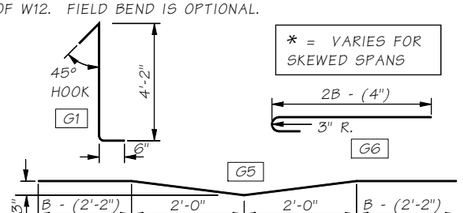
INTERIOR GIRDER REINFORCING NEAR MIDSPAN

*** THICKEN FLANGE TO COMPENSATE FOR SUPERELEVATION.

MARK	LOCATION	SIZE	
G1	GIRDER STIRRUPS	4	ΔΔ #3 OR #4 BARS MAY BE USED IN LIEU OF W12. FIELD BEND IS OPTIONAL.
G2	GIRDER END STIRRUPS	5	
G3	BOTTOM FLANGE	3	
G4	TOP OF TOP FLANGE - LONGIT.	▽4	STR.
G5	BOT. OF TOP FLANGE - TRANSV.	4	
G6	TOP TRANSV. - EXT. GIRDER	▽6	
G7	TOP TRANSV. - INT. GIRDER	▽6	STR.
G8	BOT. OF TOP FLANGE - LONGIT.	4	STR.
G10	GIRDER END TIES	W12	ΔΔ
G11	GIRDER LONGIT.	6	STR.
S1	T.B. TO DECK TIE	▽5	
S2	T.B. TO DECK TIE	4	

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)

▽ DENOTES EPOXY COATED



Bridge Design Engr.	M:\STANDARDS\Girders\Deck Bulb Tee\W53DG1.man				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor					10	WASH.			
Designed By									
Checked By					JOB NUMBER				
Detailed By									
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

STANDARD PRESTRESSED CONCRETE GIRDERS

W53DG DECK BULB TEE GIRDER DETAILS 1 OF 2

BRIDGE SHEET NO.

SHEET OF SHEETS

SR JOB NO. SHEET

5.6-A26-1

Tue Apr 29 13:53:29 2008